

TRIP PLANNING INTERFACE USING HTML, CSS, JAVASCRIPT, AND OPENWEATHERMAP API

PRESENTED BY : SENTHILKUMAR S

UNIVERSITY COLLEGE OF ENGINEERING VILLUPURAM

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

OUTLINE

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PROBLEM STATEMENT

- Planning a trip can often be a stressful and time-consuming process due to scattered information about destinations, weather, and attractions. Travelers frequently need to browse multiple sources to collect details, which leads to confusion and inefficiency.

There is a need for a **user-friendly, automated trip planning system** that provides:

- Centralized access to destination information
- Integrated photo galleries for visual exploration
- Real-time weather updates for better planning
- A clean and responsive interface for smooth navigation

SYSTEM APPROACH

- 1. Frontend:** It is built using **HTML, CSS, and JavaScript** for responsive and interactive design.
- 2. API Integration:** It uses **OpenWeatherMap API** to fetch real-time weather data for destinations.
- 3. Destination Data:** It consists of Static or API-based data for popular travel spots.
- 4. User Interface:** It allows users to explore destinations, view photos, and check weather.

Features:

- Destination search
- Dynamic weather display
- Image and description view
- Smooth and minimal interface

ALGORITHM

Algorithm:

- Start the application.
- Display a list of popular destinations or allow search input.
- When a destination is selected, fetch related data (photos, weather).
- Display destination details and current weather using OpenWeather API.
- Allow user to explore multiple destinations.
- End or restart as needed.

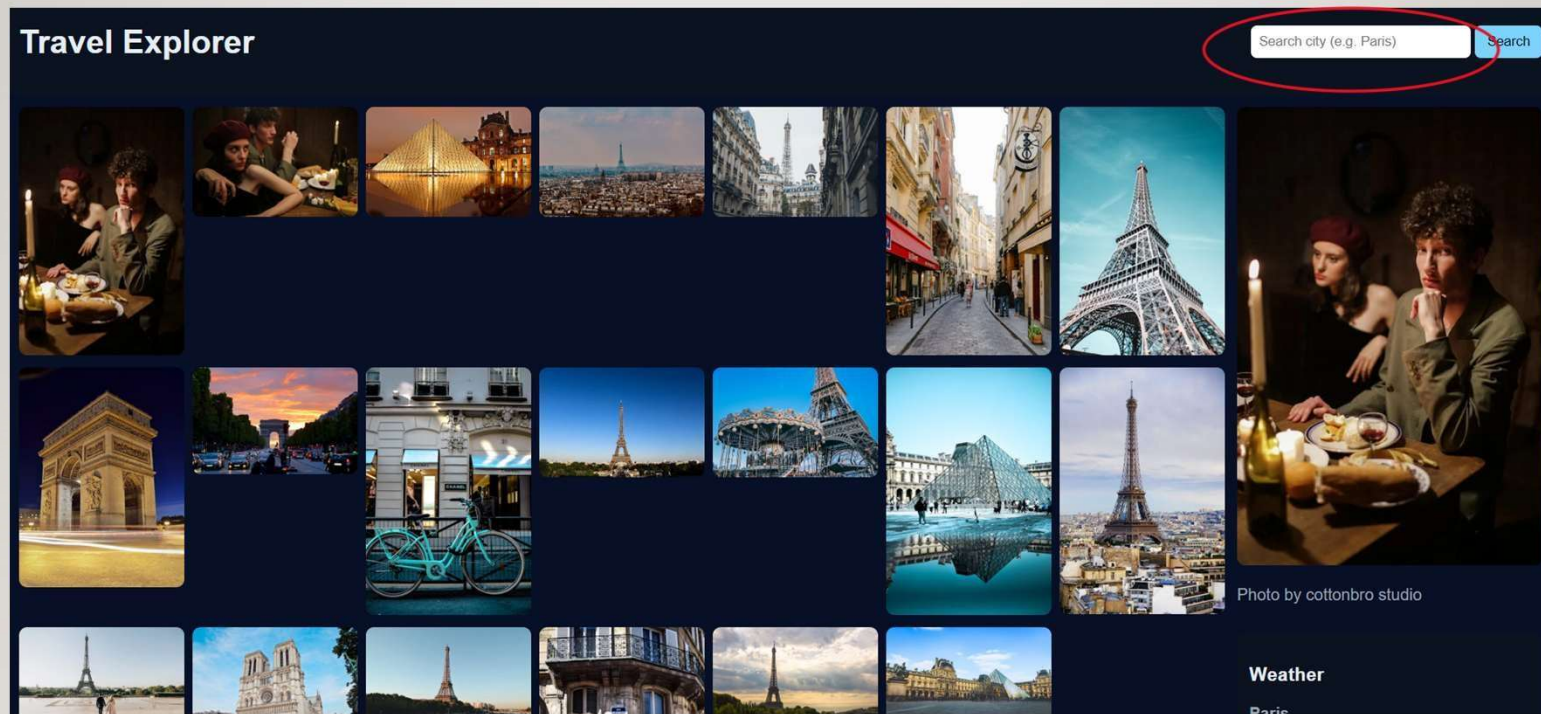
DEPLOYMENT

Deployment:

- Built with **HTML, CSS, JavaScript**.
- Can be deployed via **GitHub Pages, Netlify, or Vercel**.
- Fully responsive on **desktop, tablet, and mobile devices**.
- Tested locally in **VS Code / Browser**.
- Dynamic destination via **OpenWeathermap Api**

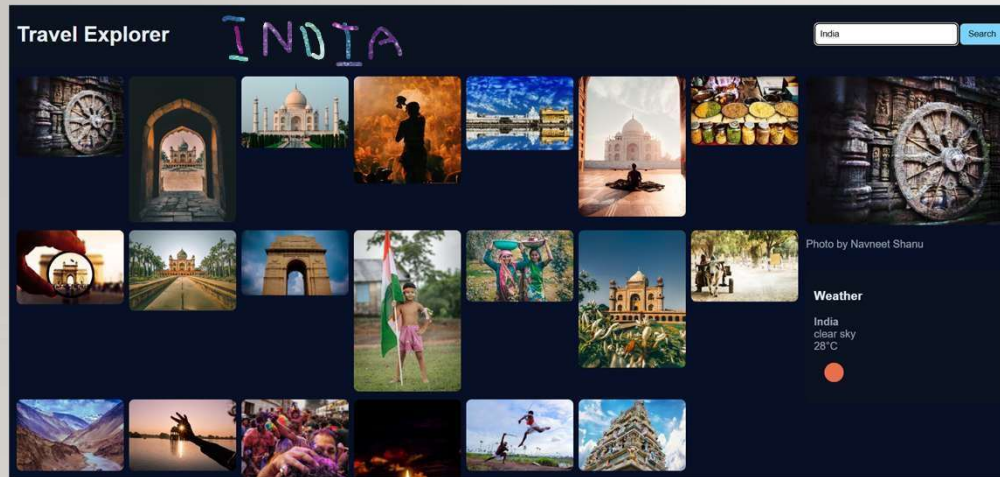
RESULT

The **Trip Planning Interface** provides users with a clean and easy-to-use platform to explore destinations, view photos, and check real-time weather updates.

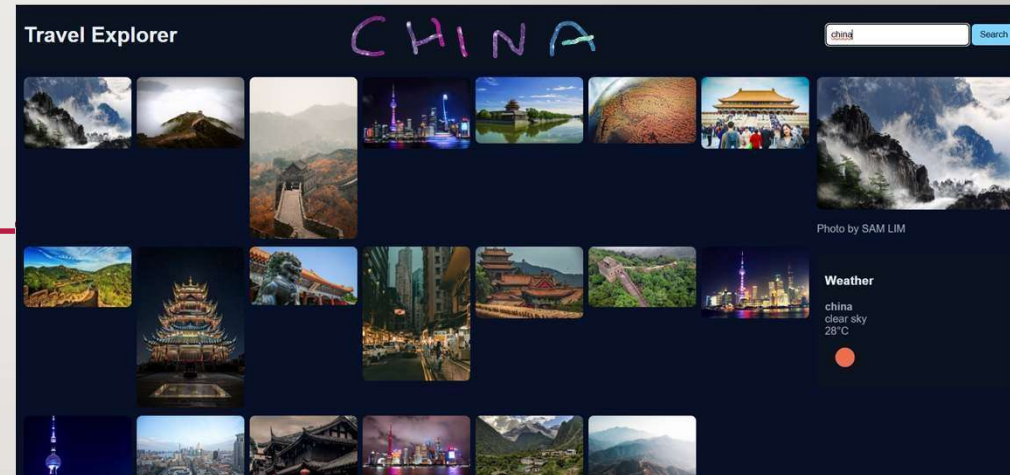


RESULT

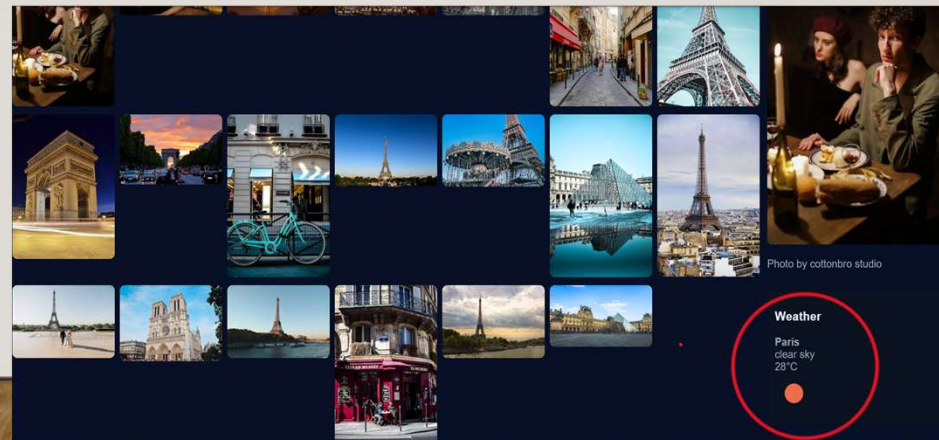
This picture shows that we can explore where we wish around the world



The result tab 2 shows the country China as we can explore the venues for our tip planner efficiently



The weather of the country can also be seen in the dashboard



GITHUB AND DEPLOYMENT LINK

- Github link: <https://github.com/Senthilkumar15112004/Travel-Explorer.git>
- Deployment link: <https://senthilkumar15112004.github.io/Travel-Explorer/>

CONCLUSION

- The developed **Trip Planning Interface** successfully integrates destination information, photos, and weather updates into a single platform. The system enhances the user's planning experience by combining functionality with a clean and responsive design.

By leveraging **HTML, CSS, JavaScript, and OpenWeatherMap API**, it demonstrates the practical use of web technologies in creating an efficient travel assistance tool.

REFERENCES

- OpenWeather API Documentation: <https://openweathermap.org/api>
- JavaScript Guide: <https://developer.mozilla.org/en-US/docs/Web/JavaScript/Guide>
- W3Schools HTML/CSS Reference: <https://www.w3schools.com>

THANK YOU
